

Science Academic Year 4 Curriculum

During Year 4 we will follow the National Curriculum Science Curriculum. Pupils will be introduced to key aspects of science, starting with how to work scientifically.

Learning through enquiry is supported by suggestions for hands-on activities, which provide integrated coverage of the Scientific Enquiry objectives. Language skills can be developed using the 'Talk about it!' ideas for classroom discussion.

Term 1

Lesson	Topic	
1	Working Scientifically	Understanding how to plan an experiment. Scientific vocabulary.
2	Biology – The Digestive System	Parts of the digestive system, digesting food
3	Biology – Teeth	Your teeth, shapes of teeth, different types of Teeth
4	Biology - Skeletons	Skeletons, the human skeleton
5	Biology – Classifying Living Things	Recognise that living things can be grouped in a variety of ways Using keys to identify things
6	Biology – Classifying Living Things	Vertebrates groups, invertebrates groups
7	Physics – Circuits	Electrical Appliances, Parts of a Circuit, What Makes a Circuit Work
8	Physics – Circuits	Drawing Circuits, Working Safely with Electricity
9	Physics – Changing Circuits	Switches – Mini Project Changing the Brightness of Bulbs
10	Physics – Electrical Conductors	Conductors and Insulators
11	Physics - Magnets	Everyday magnets, North and South Poles, Which metals are magnetic?
12	Science and inventors	Scientists and inventors: Learning about deforestation in Madagascar & Amazon. Find out about the work of conservationist Gerald Durrell
13	Science and inventors	Discovering Oxygen: What is oxygen and how was it discovered? What requires oxygen and what are its uses?
14	Science and inventors	Absolute Zero: what is temperature? How do we measure temperature? What is the Kelvin scale and what is absolute zero?
15	End of term revision lesson	
16	End of Term Test	

Term 2 Week	Subject	Topic
1	Chemistry – States of Matter	Solids, Liquids & Gases
2	Chemistry – Changing States	Investigating Gases
3	Chemistry	Heating and Cooling
4	Chemistry	Wonderful Water
5	Biology – Habitats	Where animals live, matching animals to their habitat, changing habitats
6	Biology – What animals eat	What animals eat, predators and prey,
7	Biology – Producers and Food Chains	Producers and food chains
8	Biology – The Environment	The environment needs protection, humans and the environment
9	Science	Scientists and inventors – Alexander Graham Bell
10	Science	Scientists and inventors – Maria Telkes
11	Physics – Hearing and Making Sounds	Hearing Sounds, Making sounds from Vibrations, How sound travels through objects
12	Physics – Hearing and Making Sounds	Pitch: how to change the pitch of different sounds. Make a rubber band instrument and experiment with changing pitch
13	Physics – Hearing and Making Sounds	Soundproofing: why we sometimes need to absorb sound. Which materials absorb sound the best? Material experiment.
14	Science	Revision Lesson
15	End of Course Review and Test	Review and Test
16	Year 5 Taster Lesson	Solar System: Naming the planets and exploring the relationship between the Earth and Sun